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Cooperative ECONOMIC INSECT REPORT

Issued by

PLANT PEST CONTROL DIVISION

AGRICULTURAL RESEARCH SERVICE

UNITED STATES DEPARTMENT OF AGRICULTURE

AGRICULTURAL RESEARCH SERVICE

PLANT PEST CONTROL DIVISION

SURVEY AND DETECTION OPERATIONS

The Cooperative Economic Insect Report is issued weekly as a service to American Agriculture. Its contents are compiled from information supplied by cooperating State, Federal, and industrial entomologists and other agricultural workers. In releasing this material the Division serves as a clearinghouse and does not assume responsibility for accuracy of the material.

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Plant Pest Control Division
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United States Department of Agriculture
Washington 25, D. C.

COOPERATIVE ECONOMIC INSECT REPORT

Highlights of Insect Conditions

CORN LEAF APHID and RUSTY PLUM APHID increasing in central and southeastern Arizona on sorghum; now heavy in many fields. SORGHUM MIDGE reported for first time in Arizona; late-planted grain sorghum had 25-40 percent loss of grain in local area of Cochise County. (p. 945). SPOTTED ALFALFA APHID caused complete or near-complete loss of many newly planted, untreated alfalfa stands in southwest Idaho and damaging populations reported in areas of Siskiyou and San Diego Counties, California. PEA APHID reported moderate to heavy in Chaves and Roosevelt Counties, New Mexico, alfalfa and LYGUS BUGS very numerous in alfalfa in several Oregon counties. (p. 946).

CITRUS INSECT situation and general forecast for Florida reported. CITRUS RUST MITE expected to increase rapidly in October and be above the average level through November, with a high percentage of groves in all districts harboring destructive populations. TEXAS CITRUS MITE expected to be a problem in more groves than in prior years. (pp. 948, 949).

Widespread outbreak of WALKINGSTICKS reported in Ouachita National Forest in northwest Polk County, Arkansas. (p. 951).

SCREW-WORM infestations reported in Mississippi, Tennessee, Alabama and Georgia; and FACE FLY reported for first time in Colorado. (p. 953).

Retraction of EUROPEAN CHAFER find in Massachusetts. (p. 954).

CORRECTION (p. 955).

INSECT LOSSES - 1960: Losses and production costs attributable to insects and related arthropods attacking cotton in Arizona. (p. 957).

INSECT DETECTION: An encyrtid parasite (Eusemion corniger) was reported for the first time in North America in Coos County, New Hampshire. (p. 954). New state records reported were sorghum midge in Arizona (p. 945), a leaf miner (Phytomyza crassisetata) in California (p. 952) and face fly in Colorado (p. 953). A new county record was a phycitid (Euzophora ostricolorella) in Dubois County, Indiana. (p. 951).

Reports in this issue are for week ending October 6 unless otherwise indicated.

WEATHER OF THE WEEK ENDING OCTOBER 9

Typical autumn weather with mild, sunny days and cool nights prevailed in most of the Nation on about 5 days this week.

A cold front accompanied by light to heavy precipitation, and followed by much-below-normal temperatures, moved across the Atlantic and Gulf Coastal States at the beginning of the week. Heaviest rainfall occurred in the Appalachians where totals exceeded 2 inches at many stations. Lightest amounts fell in the southeastern coastal areas where amounts were negligible in southern Georgia and most of Florida. Almost all areas of the latter State now need rain badly. The first part of the week was cooler than normal in the South and East and the latter part unseasonably mild. In most of the South, temperatures for the week averaged from about 6° to 9° below normal, but in New England weekly averages generally ranged from about 2° to 6° above normal. This was the seventh consecutive abnormally mild week in the latter area.

In the north-central interior portion of the country, average temperatures for the week were normal or slightly above, and precipitation was negligible. Temperatures, even though rising, were much below normal at the beginning of the period, with minima in the 20's in the extreme north and frost as far south as western Kansas. By the 6th, maxima had risen into the 80's and 90's as far north as South Dakota and into the 70's and 80's in Minnesota. A cold front moved across the northern Great Plains on the 6th and 7th, however, and by the 8th maxima had fallen into the 40's.

In the Far West, fair and mild weather was interrupted the latter part of the week by a cold front which brought much colder weather and scattered precipitation. Precipitation was heaviest in the central Rockies where heavy snows fell. Snowfall ranged up to 2 feet in Wyoming, and a heavy accumulation occurred in the mountains of northern Utah. Light snow fell at altitudes above 5,000 feet in Arizona. On Thursday and Friday, high winds in eastern Washington caused some crop damage and dust reduced visibility. Winds up to 50 m.p.h. caused some damage along the central California coast and aggravated a 2,000-acre fire in the Sequoia National Forest. (Summary supplied by U. S. Weather Bureau).

CEREAL AND FORAGE INSECTS

CORN EARWORM (Heliothis zea) - UTAH - Adults scarce. Damage to corn generally light in northern and central areas; occasionally heavier in southern part of State. (Knowlton). SOUTH DAKOTA - Populations low in south central and south-eastern areas; only 2 larvae found in 800 corn ears inspected. (Hanten). WISCONSIN - Larvae feeding heavily on sweet corn in Dane County. (Wis. Ins. Sur., Oct. 2). OKLAHOMA - Light populations (1 per sweep) noted on alfalfa in Payne County. (Okla. Coop. Sur.). TEXAS - Light infestations of one larva per 10 heads noted in Hale County. (Newton). LOUISIANA - Marked adult activity on Dallasgrass infected with ergot. (Newsom, Chapin). ALABAMA - Light on corn in Lee County. (Guyton). VIRGINIA - Averaged 1.5 third instars per 10 soybean plants at locality near Chesterfield, Chesterfield County. Average of 2 percent of pods per plant damaged. (Matheny, Sept. 20). DELAWARE - Larvae in alfalfa statewide and in soybeans in Kent County. (Burbutis, Mason).

SUGARCANE BORER (Diatraea saccharalis) - TEXAS - Caused local, heavy damage to grain sorghum in Brazos and Burleson Counties. (Newton). LOUISIANA - Causing light damage in few fields of late-planted rice in Port Barre area, St. Landry Parish. (Newsom, Chapin).

RICE STALK BORER (Chilo plejadellus) - LOUISIANA - Causing light damage in few fields of late-planted rice in Port Barre area, St. Landry Parish. (Newsom, Chapin).

CORN LEAF APHID (Rhopalosiphum maidis) - ARIZONA - Infestations continue to increase in central and southeast area sorghum; now heavy in many fields. (Ariz. Coop. Sur.). OKLAHOMA - Some local, very light populations noted on wheat checked in northwest area. (Okla. Coop. Sur.). SOUTH DAKOTA - Populations considerably reduced due to frost and dry weather in southeast area; very little green corn present. (Hanten).

RUSTY PLUM APHID (Hysteroneura setariae) - ARIZONA - Continues to increase on sorghum in central and southeast areas; now heavy in many fields. (Ariz. Coop. Sur.).

YELLOW SUGARCANE APHID (Sipha flava) - OKLAHOMA - Generally light on volunteer plants in field of wheat checked in Harper County. (Okla. Coop. Sur.).

AN APHID (Aphis armoraciae) - CALIFORNIA - Heavy populations occurring on corn plantings in Ceres area, Stanislaus County. (Cal. Coop. Rpt.).

A ROOT APHID (Rhopalosiphum rufiabdominalis) - WYOMING - Infesting small grains in greenhouses at University of Wyoming, Albany County. (Fullerton).

NORTHERN CORN ROOTWORM (Diabrotica longicornis) - SOUTH DAKOTA - Adult populations reduced to scattered individuals in much of southeast area. However, adults numerous on corn ears in Minnehaha County. (Mast).

RICE WEEVIL (Sitophilus oryzae) - LOUISIANA - Heavy on corn in field in St. Landry Parish. (Newsom, Chapin).

GRASSHOPPERS - OKLAHOMA - Several species caused some localized marginal damage in fields of wheat checked in northwest area. (Okla. Coop. Sur.). WISCONSIN - Melanoplus femurrubrum remains plentiful in southeastern area, especially along roadsides. (Wis. Ins. Sur.).

SORGHUM MIDGE (Contarinia sorghicola) - ARIZONA - First collection in State made in Kansas Settlement area of Cochise County, October 3. Initial surveys show most unseasonably late-planted grain sorghum in county infested, with 25-40 percent loss of grain common. Grain planted normally and now in harvesting stage not noticeably affected. Further surveys necessary to determine extent of infestation. (Ariz. Coop. Sur.). TEXAS - Caused local heavy damage to grain sorghum in some sections of panhandle area. (Newton).

HESSIAN FLY (Phytophaga destructor) - NEBRASKA - Main adult emergence from samples collected occurred in eastern and central areas, September 18-25. (Bergman).

TWO-SPOTTED SPIDER MITE (Tetranychus telarius) - CALIFORNIA - Medium on milo plantings in Knights Landing, Sutter County; light in Sacramento, Sacramento County. (Cal. Coop. Rpt.).

SPOTTED ALFALFA APHID (Therioaphis maculata) - IDAHO - Some controls still required on late-emerging, fall-planted alfalfa in southwest. Many newly planted, untreated fields being abandoned as a complete or near-complete loss. (Waters). OREGON - Remains low in alfalfa in Malheur County from Adrian to Ontario. Aphids generally distributed throughout Umatilla County; no controls have been necessary this season. Newly seeded alfalfa in Stanfield area found infested October 4, but it is believed weather conditions unfavorable for development will reduce aphid populations before serious damage occurs. (Capizzi). CALIFORNIA - Medium on alfalfa in Siskiyou, Siskiyou County; heavy in Jacumba, San Diego County. (Cal. Coop. Rpt.). ARIZONA - Light in central and southeast area alfalfa; increasing very little. Fall infestation expected to be light compared with previous years. (Ariz. Coop. Sur.). COLORADO - Present in trace numbers (10-20 per 100 sweeps) on Western Slope; numbers moderate in Arkansas River Valley. (Bulla, Schweissing). OKLAHOMA - Light (10-15 per sweep) on alfalfa in southwest and northwest areas. (Okla. Coop. Sur.). NEBRASKA - Averaged 72 per sweep in Dundy County and 74 per sweep in Howard County. (Stevens). INDIANA - Populations remain static along Ohio River; 500-600 per 100 sweeps in Harrison County and generally less than 5-10 per 100 sweeps in western counties. (Wilson).

PEA APHID (Macrosiphum pisi) - OREGON - Generally low in alfalfa in northeast counties; seldom exceeded 2-3 per sweep during period October 3-5. (Capizzi). UTAH - Becoming numerous on some alfalfa in Weber County (Knowlton, Oct. 2) and buildup reported on alfalfa in Payson area, Utah County (Knowlton). WYOMING - Infesting many plants in greenhouses in Albany County. (Fullerton). COLORADO - Light to moderate on alfalfa; 10-500 per 100 sweeps in Western Slope and Arkansas River areas. (Bulla, Schweissing). NEW MEXICO - Moderate to heavy infestations noted in Chaves and Roosevelt County alfalfa fields. (N. M. Coop. Rpt.). OKLAHOMA - Light (2-5 per sweep) on alfalfa in southwest, north central and northwest areas. (Okla. Coop. Sur.). SOUTH DAKOTA - Sexual forms averaged 20-25 per 10 sweeps on south central area alfalfa. (Hanten). DELAWARE - Counts per sweep in alfalfa averaged 15 in New Castle County, 6 in Kent County and 1 in Sussex County. (Burbutis, Mason).

TARNISHED PLANT BUG (Lygus lineolaris) - OKLAHOMA - Averaged one per sweep on alfalfa in northwest area and in Payne County. (Okla. Coop. Sur.). DELAWARE - Adults per 100 sweeps in alfalfa averaged 125 in New Castle County, 60 in Kent County and 45 in Sussex County; and in soybeans, 10 in New Castle County, 20 in Kent County and 50 in Sussex County. Averaged 30 adults per 100 sweeps in a cereal cover crop in Kent County. Nymphs present in low numbers in alfalfa, statewide. (Burbutis, Mason).

LYGUS BUGS (Lygus spp.) - OREGON - Adults and nymphs very numerous in all alfalfa checked in Malheur, Baker, Union and Umatilla Counties, October 3-5. Populations rather uniform, averaging 8 adults and nymphs per sweep in 20 fields checked. (Capizzi).

RAPID PLANT BUG (Adelphocoris rapidus) - DELAWARE - Adults averaged 30 per 100 sweeps in alfalfa, statewide; present on cereal cover crop in Kent County. (Burbutis, Mason).

THREE-CORNERED ALFALFA HOPPER (Spissistilus festinus) - OKLAHOMA - Averaged less than one per sweep in north central and northwest areas. (Okla. Coop. Sur.). TEXAS - Averaged 20-30 per 10 sweeps in alfalfa in Brazos and Burleson Counties. (Newton). NEW MEXICO - Adults averaged approximately 26 per 100 sweeps in Roosevelt County alfalfa. (N. M. Coop. Rpt.).

GARDEN FLEAHOPPER (Halticus bracteatus) - INDIANA - Very abundant on alfalfa (20-36 per sweep) at one location in southern Harrison County. (Wilson, Sept. 29). DELAWARE - Adults greatly reduced in numbers from previous week, but remain in soybeans over State and in alfalfa in Kent County. (Burbutis, Mason).

CUCUMBER BEETLES (Diabrotica spp.) - LOUISIANA - D. balteata infestations up to 160 per 100 sweeps common on soybeans and cowpeas in West Feliciana, St. Landry and East Baton Rouge Parishes. (Newsom, Chapin). OKLAHOMA - Light to medium populations of D. undecimpunctata howardi (up to 8 per sweep) found on alfalfa in northwest area. (Okla. Coop. Sur.). DELAWARE - Adults of D. undecimpunctata howardi in soybeans and alfalfa in New Castle County and in alfalfa and cereal cover crops in Kent County; averaged 60 per 100 sweeps in Kent County soybeans and 100 per 100 sweeps in soybeans and alfalfa in Sussex County. (Burbutis, Mason).

GREEN JUNE BEETLE (Cotinis nitida) - ARKANSAS - Larvae damaging alfalfa in north central area. Damage generally not heavy, but spotty. Larvae rise to surface and feed on portions of plants above ground. (Ark. Ins. Sur.).

BEAN LEAF BEETLE (Cerotoma trifurcata) - DELAWARE - Adults averaged 125 per 100 sweeps in soybeans in Kent County and 40 in Sussex County. (Burbutis, Mason).

A FLEA BEETLE (Disonycha sp.) - ALABAMA - Extremely light on field peas in Lee County. (Guyton).

ALFALFA CATERPILLAR (Colias eurytheme) - OREGON - Present on all alfalfa checked in Malheur, Baker and Union Counties, October 3-5. Infestations have been sporadic in Umatilla County, with controls unnecessary. (Capizzi). UTAH - Moderate in some alfalfa in Salt Lake City-Magna area of Salt Lake County. (Knowlton). COLORADO - Larvae moderate in some alfalfa in Mesa, Montrose, Garfield, Delta, Otero, Crowley, Pueblo and Bent Counties. (Bulla, Schweissing). NEW MEXICO - Generally light in alfalfa in Roosevelt and Lea Counties; no appreciable damage. (N. M. Coop. Rpt.). OKLAHOMA - Light populations (1 per sweep) noted on alfalfa in Tillman County. (Okla. Coop. Sur.). DELAWARE - Larvae in alfalfa statewide; highest count 50 per 100 sweeps in Sussex County. (Burbutis, Mason).

ALFALFA LOOPER (Autographa californica) - NEW MEXICO - Causing some damage in alfalfa near Portales, Roosevelt County. (N. M. Coop. Rpt.).

LOOPERS - LOUISIANA - Light to medium infestations, predominantly Pseudoplusia includens, occurring on soybeans throughout State. (Newsom, Chapin).

FALL ARMYWORM (Laphygma frugiperda) - TEXAS - Light locally, causing limited damage to Dallasgrass meadows in Montgomery County and to small grains in Falls and Kaufman Counties. (Texas Coop. Rpt.). DELAWARE - Larvae in alfalfa in southern Kent County and in Sussex County; present in cereal cover crops in central Kent County. (Burbutis, Mason).

GREEN CLOVERWORM (Plathypena scabra) - LOUISIANA - Extremely heavy infestations on soybeans in many areas have been eliminated by fungus. (Newsom, Chapin).

VELVETBEAN CATERPILLAR (Anticarsia gemmatilis) - LOUISIANA - Infestations light in southern half of State. (Newsom, Chapin).

BEAN THRIPS (Hercothrips fasciatus) - CALIFORNIA - Heavy populations occurring on soybeans in Brawley, Imperial County. (Cal. Coop. Rpt.).

A CHINCH BUG (Blissus leucopterus insularis) - LOUISIANA - Infestations have been lighter on St. Augustine grass this season than at any time in past several years. (Newsom, Chapin).

JAPANESE BEETLE (Popillia japonica) - MARYLAND - Larvae, about half grown, moderate in lawn at Spencerville, Montgomery County. (U. Md., Ent. Dept.).

FRUIT INSECTS

RED-HUMPED CATERPILLAR (Schizura concinna) - CALIFORNIA - Medium larval infestation on apple trees in Vacaville, Solano County. (Cal. Coop. Rpt.).

CODLING MOTH (Carpocapsa pomonella) - IDAHO - Infested plums at Moscow, Latah County. (Portman).

EUROPEAN FRUIT LECANIUM (Lecanium corni) - UTAH - Abundant and severely damaged apricot orchard in Salt Lake City area on May 22. Det. by H. Morrison. (Knowlton).

SPIDER MITES (Tetranychus spp.) - NEW MEXICO - Late increase on apple foliage in Hondo Valley, Lincoln County, and in Bernalillo and Rio Arriba Counties. (N. M. Coop. Rpt.). COLORADO - T. telarius light in apple orchards; ranged 0-8 per leaf in Delta, Garfield, Mesa and Montrose Counties. (Bulla).

FALL WEBWORM (Hyphantria cunea) - LOUISIANA - Third generation abundant in southern half of State; severe defoliation of persimmon and pecan occurring. (Newsom, Chapin).

BLACK PECAN APHID (Melanocallis caryaefoliae) - ALABAMA - Severe infestation, with heavy defoliation of pecans in Lee County. (Guyton).

WALNUT HUSK FLY (Rhagoletis completa) - CALIFORNIA - Heavy numbers taken in trap in Milmar, Merced County, and several locations in Amador County. One fly in trap in Yosemite National Park, Tuolumne County, and larvae in walnut husks in Escalon, San Joaquin County. (Cal. Coop. Rpt.). UTAH - Infested English walnut husks at Provo, Utah County. (Knowlton).

GRAPE LEAF SKELETONIZER (Harrisina americana) - VIRGINIA - Feeding on grape foliage in Fredericksburg, Stafford County. (Tarpley, Beek, Sept. 19).

WESTERN GRAPE LEAF SKELETONIZER (Harrisina brillians) - CALIFORNIA - Third treatment applied on 188 properties covering 1,416 hosts in Kerman, Fresno County; all dooryard grapevines in mile-wide buffer zone treated. No new infestations and no infestations in commercial vineyards to date. (Cal. Coop. Rpt.).

ORANGE-DOG (Papilio cressphontes) - ALABAMA - Heavy infestations, with damage to satsuma orange trees in Houston County. (Buttram).

BEEET ARMYWORM (Spodoptera exigua) - CALIFORNIA - Medium to heavy populations on navel orange trees in Porterville and Strathmore, Tulare County. (D. Avis).

WESTERN YELLOW-STRIPED ARMYWORM (Prodenia praefica) - CALIFORNIA - Medium to heavy populations on navel orange trees in Porterville and Strathmore, Tulare County. (D. Avis).

CABBAGE LOOPER (Trichoplusia ni) - CALIFORNIA - Medium to heavy populations on navel orange trees in Porterville and Strathmore, Tulare County. (D. Avis).

FULLER ROSE BEETLE (Pantomorus godmani) - ALABAMA - Caused severe defoliation of satsuma orange in Mobile County. (Seibels).

Citrus Insect Situation in Florida - End of September - CITRUS RUST MITE

(Phyllocoptruta oleivora) infested 71 percent of groves (norm 59 percent); 46 percent economic (norm 38 percent). Statewide population above average and will increase during October; high percent of groves in all districts will harbor destructive infestations. Highest districts with threatening conditions are west coast, Bartow, Gainesville, Brooksville and ridge. CITRUS RED MITE (Panonychus citri) infested 30 percent of groves (norm 42 percent); 7 percent

economic (norm 21 percent). Infestations fewer and lighter than any year since 1950. Although increase will occur in October, only a few scattered groves will develop important infestations. TEXAS CITRUS MITE (Eutetranychus banksi) infested 21 percent of groves; 4 percent economic. Increasing trend will prevail, but no district will develop high populations during October. FLORIDA RED SCALE (Chrysomphalus aonidum) infested 58 percent of groves (norm 58 percent); 4 percent economic (norm 10 percent). Populations currently low in most districts. Current upward trend will cause spotty infestations to appear. Highest districts are upper east coast, with threatening conditions, and Indian River. PURPLE SCALE (Lepidosaphes beckii) infested 58 percent of groves; 2 percent economic. Slight increase from current low population level will occur, but only light infestations are expected. (Simanton, Thompson, Johnson (Citrus Exp. Sta., Lake Alfred)).

General Forecast, Citrus Insects in Florida - October through December - CITRUS

RUST MITE population will increase rapidly in October and continue above average level through November; decline to average level expected in December, with buildup more noticeable on leaves than on fruit. CITRUS RED MITE infestations will become more numerous in late October and November, but population generally will remain below average. A gradual increase of TEXAS CITRUS MITE will occur through November and population will approach the moderately high level recorded previous fall; expected to be a problem in more groves than in prior years. FLORIDA RED SCALE populations will be below average; infestations expected to be light and spotty. Although PURPLE SCALE infestations will be common, very few will reach destructive level. CHAFF SCALE (Parlatoria pergandii) will occur in about 50 percent of groves and increase gradually; occasional groves may develop infestations capable of downgrading crop as fresh fruit. (Simanton).

TRUCK CROP INSECTS

BEET ARMYWORM (Spodoptera exigua) - CALIFORNIA - Medium larval populations damaged potato plants in Moreno, Riverside County. (Cal. Coop. Rpt.).

SWEETPOTATO LEAF ROLLER (Pilocrocis tripunctata) - LOUISIANA - This species in association with Pseudoplusia includens and Prodenia sp. defoliated many sweetpotato fields in West Feliciana Parish and Opelousas area. (Newsom, Chapin).

A LEAFHOPPER (Empoasca sp.) - LOUISIANA - Extremely heavy populations on sweetpotatoes in West Feliciana Parish; chlorophyll in leaves almost completely destroyed due to feeding. (Newsom, Chapin).

A SCOLYTID - LOUISIANA - An undetermined species caused serious damage in several sweetpotato fields in West Feliciana Parish; adults found tunneling with no evidence of breeding. (Newsom, Chapin).

BANDED CUCUMBER BEETLE (Diabrotica balteata) - LOUISIANA - Damage to sweetpotatoes reduced satisfactorily with treatments; injury developed in 2 new areas in Avoyelles and West Feliciana Parishes. (Newsom, Chapin).

SOUTHERN GREEN STINK BUG (Nezara viridula) - LOUISIANA - Heavy on late beans in southern portion of State. (Newsom, Chapin).

SPOTTED CUCUMBER BEETLE (Diabrotica undecimpunctata howardi) - DELAWARE - Adults abundant on pumpkin squash ready for harvest statewide. (Brubutis, Mason).

CABBAGE APHID (Brevicoryne brassicae) - OREGON - Heavy infestations on commercial broccoli and cauliflower plantings in Gresham and Woodburn areas; winged forms believed scattered throughout area by high winds on September 20; controls necessary. (Hanna).

HARLEQUIN BUG (Murgantia histrionica) - ALABAMA - Light infestations on collards in Lee County. (Buttram, Guyton).

CABBAGE LOOPER (Trichoplusia ni) - DELAWARE - Larvae present but scarce on cabbage in New Castle and Kent Counties. (Burbutis, Mason). ALABAMA - Local infestation on turnips in Mobile County and heavy on collards in Lee County. (Guyton, Seibels, Buttram).

IMPORTED CABBAGEWORM (Pieris rapae) - DELAWARE - Eggs fairly common on cabbage in central New Castle County. (Burbuits, Mason). ALABAMA - Local infestation on turnips in Mobile County and heavy on collards in Lee County. (Buttram, Guyton, Seibels).

DIAMONDBACK MOTH (Plutella maculipennis) - ALABAMA - Light infestation on collards in Lee County. (Buttram, Guyton).

CABBAGE WEBWORM (Hellula rogatalis) - ALABAMA - Light infestation on collards in Lee County. (Buttram, Guyton).

CELERY LEAF TIER (Udea rubigalis) - MARYLAND - Larvae caused moderate injury to spinach during late September at Glenarm, Baltimore County. (U. Md., Ent. Dept.).

LESSER BULB FLY (Eumerus tuberculatus) - IDAHO - Larvae in decaying sugar beets at Caldwell, Canyon County, probably this species. (Bechtolt).

COTTON INSECTS

BOLLWORMS (Heliothis spp., et al.) - ARIZONA - Continue to damage cotton in some fields statewide; most damage in late fields and in long-staple cotton. (Ariz. Coop. Sur.).

PINK BOLLWORM (Pectinophora gossypiella) - ARIZONA - Few fields heavily infested in Graham County; however, infestations very light in most instances. No further collections made in central area following collection of 2 larvae near Stanfield, Pinal County. (Ariz. Coop. Sur.). FLORIDA - Over 700 blooms from infested hibiscus plants on Upper Matecumbe and Plantation Keys inspected with negative results; 400 blooms on Key Largo also inspected with negative results. This is third week no pink bollworms have been found in hibiscus on Upper Matecumbe and Plantation Keys. (Fla. Coop. Sur., PPC).

SALT-MARSH CATERPILLAR (Estigmene acrea) - ARIZONA - Infestations heavy in some areas of Pinal County with considerable larval migration. (Ariz. Coop. Sur.).

COTTON LEAF PERFORATOR (Bucculatrix thurberiella) - CALIFORNIA - Medium on cotton plantings in Borrego Springs, San Diego County. (Cal. Coop. Rpt.).

BEET ARMYWORM (Spodoptera exigua) - CALIFORNIA - Light in cotton plantings in Orange Cove, Fresno County. (Cal. Coop. Rpt.).

BOLL WEEVIL (Anthonomus grandis) - OKLAHOMA - Continues present in cotton-producing areas of State. (Okla. Coop. Sur.).

SPIDER MITES - ARIZONA - Few heavy infestations present in Coolidge area of Pinal County. (Ariz. Coop. Sur.).

FOREST, ORNAMENTAL AND SHADE TREE INSECTS

REPRODUCTION WEEVILS - ARKANSAS - Trap collections indicated increased activity by this group of pests during September. Damage to seedlings more noticeable in the Clark County area. (Ark. For. Pest Rpt., Oct.). CALIFORNIA - Heavy populations of Cylindrocopturus sp. damaging Monterey pines on ranch near Menlo Park, San Mateo County. (Cal. Coop. Rpt.).

BARK BEETLES - ARKANSAS - Increased activity by Ips. spp. and Dendroctonus terebrans reported in 11 of 36 areas; this is somewhat less than previous month and activity will likely continue to decline. (Ark. For. Pest Rpt., Oct.).

PINE WEBWORM (Tetralopha robustella) - WISCONSIN - Larvae feeding on jack pine in scattered locations in Sauk County. (Wis. Ins. Sur.).

A COSMOPTERYGID (Periploca n. sp.) - CALIFORNIA - Causing heavy damage to Juniperus lustanica in Long Beach, Los Angeles County. (Cal. Coop. Rpt.).

PINE TIP MOTHS - ARKANSAS - Activity now on decline. If warm weather persists, late feeding activity may be noticeable in mid-October. Late summer activity caused rather severe flagging in local areas. Peak emergence of last adult brood occurred around September 1. (Ark. For. Pest Rpt., Oct.).

COCCIDS - UTAH - Matsucoccus acalyptus damaged and killed young pinyon pine in Iron Mountain and west Cedar City areas of Iron County, May 31. Det. by H. Morrison. (Knowlton). INDIANA - Toumeyella pini infesting mugho pines in nursery at Elwood, Madison County. (Schuder, Sept. 29).

SAWFLIES (Neodiprion spp.) - ARKANSAS - N. lecontei infestations common in local areas, particularly in northwest and southwest counties. (Ark. For. Pest Rpt., Oct.). INDIANA - Adults of N. sertifer emerging and laying eggs. (Schuder).

WALKINGSTICKS - ARKANSAS - Widespread outbreak active in Ouachita National Forest area in northwest Polk County. Although not uniform, infestations covered large area, extending west across State line along U.S. 270. Black locust and white oak group appeared to be more heavily damaged than other trees. (Ark. For. Pest. Rpt., Oct.).

VARIABLE OAK LEAF CATERPILLAR (Heterocampa manteo) - OKLAHOMA - Defoliating trees in McCurtain and Pushmataha Counties. (Okla. Coop. Sur.).

A PHYCITID (Euzophora ostricolorella) - INDIANA - Larvae and pupae found in yellow-poplar in Dubois County; larvae mature in La Porte County infestation. (Giese). According to ARS records, find in Dubois County is a new county record. (PPC).

A LEAF TIER (Nephopteryx uvinella) - MARYLAND - Unusually abundant on sweetgum this fall in most sections. (U. Md., Ent. Dept.).

YELLOW-NECKED CATERPILLAR (Datana ministra) - OKLAHOMA - Causing some light defoliation of trees in southeast portion of State. (Okla. Coop. Sur.).

SMALLER EUROPEAN ELM BARK BEETLE (Scolytus multistriatus) - CALIFORNIA - Populations heavy on elms in Shandon, San Luis Obispo County. (Cal. Coop. Rpt.).

TWIG GRIDLER (Oncideres cingulata) - MARYLAND - Adults injuring hickory trees at Severn, Anne Arundel County. (U. Md., Ent. Dept.).

ELM BORER (Saperda tridentata) - MARYLAND - Several larvae taken from elm stump at Hollywood, St. Marys County. (U. Md., Ent. Dept.).

A CERAMBYCID (Arhopalus productus) - CALIFORNIA - Medium infestation of lumber consisting of oak, pine and Douglas-fir in a lumberyard in El Cerrito, Contra Costa County. (Cal. Coop. Rpt.).

WALNUT SCALE (Aspidiotus juglansregiae) - CALIFORNIA - Population heavy on poplars in La Mesa, San Diego County. (Cal. Coop. Rpt.).

A SPITTLEBUG (Clastoptera elongata) - NEW MEXICO - Heavily infested chokecherry trees in Taos Canyon during summer months. (N. M. Coop. Rpt.).

ADLER FLEA BEETLE (Altica ambiens) - CALIFORNIA - Adult population heavy on dogwoods in Dardanelle, Tuolumne County. (Cal. Coop. Rpt.).

MARGINED BLISTER BEETLE (Epicauta pestifera) - ALABAMA - Heavy on several types of ornamentals in Mobile County. (Seibels).

A WEEVIL (Brachyrhinus cribricollis) - NEVADA - Infestation and damage range medium to heavy on lilac, ornamental plum, privet and pyracantha in Las Vegas, Clark County. (Bechtel, Zoller, Sept. 29). CALIFORNIA - Medium on lilac in Benicia, Solano County. (Cal. Coop. Rpt.).

CORN EARWORM (Heliothis zea) - CALIFORNIA - Larvae heavy on leaves and flowers of canna plants in San Marcos, San Diego County. (Cal. Coop. Rpt.).

A LEAF ROLLER (Platynota stultana) - NEW MEXICO - Caused serious damage to carnations in greenhouse at Las Cruces, Dona Ana County. (N. M. Coop. Rpt.).

A PYRAUSTID (Pyrausta gracilalis) - CALIFORNIA - Medium infestation on privet on grounds of post office in Auburn, Placer County. (Cal. Coop. Rpt.).

CRAPEMYRTLE APHID (Myzocallis kahawaluokalani) - CALIFORNIA - Medium on crape-myrtle in Planada, Merced County, and light on same host in Gridley, Butte County. (Cal. Coop. Rpt.).

APHIDS - NEVADA - Cinara sp. heavy and causing needle drop on ornamental spruce (Picea sp.) in Minden, Douglas County. (Coop. Rpt.). Neosymydobius sp. heavy on ornamental birch (Betula spp.) in Reno-Sparks area, Washoe County. (Bechtel, Lukens, Ting).

VIRGINIA-CREEPER LEAFHOPPER (Erythroneura ziczac) - UTAH - Damage less general than normal in a number of communities. (Knowlton).

ROSE LEAFHOPPER (Edwardsiana rosae) - UTAH - Continued numerous on roses and spirea at Logan, Cache County. (Knowlton, Oct. 2).

EUONYMUS SCALE (Unaspis euonymi) - OKLAHOMA - Heavy on euonymus in greenhouse in Tulsa, Tulsa County. (Okla. Coop. Sur.).

CHRYSANTHEMUM GALL MIDGE (Diarthronomyia chrysanthemi) - CALIFORNIA - Heavy populations damaging chrysanthemums in Hughson, Stanislaus County. (Cal. Coop. Rpt.).

A LEAF MINER (Phytomyza crassiseta) - CALIFORNIA - Medium to heavy on Veronica imperialis in a nursery property in Oxnard, Ventura County. This species not previously known to occur in State. Infested plants to receive eradication treatment and survey now underway outside infested property to delimit possible infestations. (Cal. Coop. Rpt.).

SPIDER MITES - NEVADA - Light to heavy on ornamental birch in Reno-Sparks area, Washoe County. (Bechtel).

INSECTS AFFECTING MAN AND ANIMALS

FACE FLY (Musca autumnalis) - COLORADO - Males collected in small numbers in Clear Creek, Summit and Gilpin Counties on umbels at elevations of 8,500-10,000 feet during late July and early August. Also numerous on faces of small beef herd near Tolland, Gilpin County. Det. by J. G. Chillcott. (Chillcott, Daniels). These are the first records in the State. (PPC).

HOUSE FLY (Musca domestica) - OKLAHOMA - Populations decreased on animals, but became more numerous in sheltered areas in north central area. (Okla. Coop. Sur.). WYOMING - Moving into homes and becoming nuisance throughout Albany County. (Fullerton).

HORN FLY (Haematobia irritans) - OKLAHOMA - Populations decreased over previous week in Payne County; some locally heavy populations on cattle in northwestern area. (Okla. Coop. Sur.). TEXAS - Infestations of 25-100 per animal common throughout central and panhandle areas. (Newton). LOUISIANA - Activity declining since cool weather. (Newsom, Chapin).

STABLE FLY (Stomoxys calcitrans) - OKLAHOMA - Populations less than half of previous week in Stillwater area. (Okla. Coop. Sur.).

Current Status of Screw-worm (Callitroga hominivorax) Infestation in the Southeastern United States

The first infestation found in the eradication area, other than the case in Holmes County, FLORIDA, during the calendar year 1961, was discovered in a native animal in western MISSISSIPPI near Vicksburg on August 15. Numerous cases were found in this area of Warren County, and shortly after infestations were reported in De Soto County, Mississippi, which is in the extreme northwestern corner of the State. No infestations had been reported in this area since the initiation of the eradication in the Southeast. After being disclosed in northwestern Mississippi, infestations were soon found in herds in several counties in western TENNESSEE near Memphis. Numbers increased rapidly and numerous infestations were reported in many herds and some reinfestations occurred. In slightly over 2 weeks, an infestation was reported by a veterinary practitioner in Franklin County on the Alabama border in middle Tennessee. Almost immediately after this discovery, ALABAMA reported the pest in the northern section of Madison County near Huntsville. From this initial foci of infestation in Alabama, screw-worm spread in the immediate area to 5 counties in Alabama and Floyd County, GEORGIA. Federal and State livestock inspectors are making a close inspection of all livestock in these areas, applying a pesticide to many of the herds and are closely watching animal movements to control the spread of the pest into the Southeastern overwintering area. (Anim. Dis. Erad. Div.).

SCREW-WORM (Callitroga hominivorax) - GEORGIA - Calf infested in Floyd County on September 28; det. by J. E. Corley, Ga. Dept. of Agric. (Johnson, Smith). FLORIDA - Total of 3,591,600 sterile flies released as of August 31 since infestations found at Bonifay on June 18. (Fla. Coop. Sur.). OKLAHOMA - Scattered reports throughout State. (Okla. Coop. Sur.). TEXAS - Infestations continue common throughout State, with some decrease expected. (Tex. Coop. Rpt.).

MOSQUITOES - LOUISIANA - Extremely heavy populations following rains of Hurricane Carla declining generally. (Newsom, Chapin). MARYLAND - Psorophora horrida observed at Laurel, Prince Georges County; species rare in State. (U. Md., Ent. Dept., Sept. 29). UTAH - Anopheles freeborni appeared in homes at Logan. Various species biting at Logan and Logan Canyon, Cache County. (Knowlton).

A FLEA (Ceratophyllus gallinae) - WISCONSIN - Found biting children in Oconto County in April. Det. by P. T. Johnson. (Wis. Ins. Sur.).

VESPIDES - UTAH - Annoying to hunters and fishermen in several mountain and canyon areas. (Knowlton). SOUTH DAKOTA - Vespula arenaria annoying around homes and business establishments in east central and southeastern areas. (Hanten).

TICKS - LOUISIANA - Extremely troublesome in some northern areas. (Newsom, Chapin).

BLACK WIDOW SPIDER (Latrodectus mactans) - UTAH - Pestiferous in and around homes. (Knowlton). SOUTH DAKOTA - Appeared in homes in Center City, Lawrence County. (Mast).

BENEFICIAL INSECTS

AN ENCYRTID PARASITE (Eusemion corniger) - NEW HAMPSHIRE - Collected July 29, 1961, on Mt. Washington, Coos County, by W. W. Wirth. Det. by B. D. Burks. This is first North American record of this European species. It is recorded in the European literature as a parasite of several scale insects. (Burks, Conklin).

A PTEROMALID PARASITE (Pteromalus vanessae) - CALIFORNIA - Heavy parasitism of Papilio zelicaon at Porterville, Tulare County. (D. Avis).

CICADA KILLER (Sphecius speciosus) - VIRGINIA - Common in Richmond, Henrico County, during past few weeks. (Willey, Sept. 22).

LADY BEETLES - OKLAHOMA - Light populations in alfalfa in southwestern area; light to heavy populations in alfalfa in northwestern area. (Okla. Coop. Sur.). WYOMING - Few Hippodamia sp. present in alfalfa and potato fields near Laramie, Albany County. (Fullerton).

NABIDS (Nabis spp.) - OKLAHOMA - Light on alfalfa in Payne County; 3-4 per sweep. (Okla. Coop. Sur.).

LACEWINGS (Chrysopa spp.) - OKLAHOMA - Light on alfalfa in northwestern area. (Okla. Coop. Sur.).

A SNAIL (Monadenia fidelis) - OREGON - Infested gorse in coastal Lane County; det. by Dr. J. B. Burch. (Capizzi).

MISCELLANEOUS INSECTS

EUROPEAN CHAFER (Amphimallon majalis) - MASSACHUSETTS - The following statement was issued by P. C. Kusmiski, Assistant Director, Division of Plant Pest Control, Department of Agriculture, Commonwealth of Massachusetts, to Plant Pest Regulatory Officials of the States on October 4, 1961. "Reference is made to the mailed notice dated August 30, 1961, relative to the finding of European chafer in Massachusetts. Subsequent information on this matter has revealed that previously collected adults of this insect from a known infested area outside of Massachusetts were inadvertently included with other insects collected in Massachusetts from a light trap used by a student for his insect collection project. As these were the adults submitted for official identification and the establishment of a first find, it is now in order to void the first find record as stated in the above referred announcement dated August 30, 1961. Cooperative visual and soil surveys, as well as trapping for the possible presence of this insect in Massachusetts are planned for the next spring and summer." The original statement dated August 30, 1961, was carried in CEIR 11(40):933. (PPC).

LEAD-CABLE BORER (Scobicia declivis) - CALIFORNIA - Medium infestation damaged draperies in home in Fresno, Fresno County. (Cal. Coop. Rpt.).

DERMESTIDS - OKLAHOMA - Several species appeared in homes in Stillwater area. (Okla. Coop. Sur.).

IMPORTED FIRE ANT (Solenopsis saevissima richteri) - FLORIDA - Delimiting surveys completed in Polk County on September 22; 7,500 properties, involving 40,000 acres, have been surveyed since September 5. Infestations found in 36 sections in 4 townships. (Fla. Coop. Sur., PPC).

A CRANE FLY (Pales ferrugineus) - VIRGINIA - Collected in alfalfa near Washington, Rappahannock County; det. by A. Stone. (Tarpley, Lyne, July 17).

MONARCH BUTTERFLY (Danaus plexippus) - MARYLAND - Adults abundant around tulip-tree at Spencerville, Montgomery County. (U. Md., Ent. Dept.).

PUSS CATERPILLAR (Megalopyge opercularis) - VIRGINIA - Numerous in Halifax County. (Amos, Tarpley, Hall).

MEAL MOTH (Pyralis farinalis) - CALIFORNIA - Heavy infestation in home in Riverside, Riverside County; many reports throughout State. (Cal. Coop. Rpt.).

BOXELDER BUG (Leptocoris trivittatus) - UTAH - Troublesome in many homes in central and northern areas since colder weather. (Knowlton). SOUTH DAKOTA - Entered homes; a pest throughout eastern part of State. (Hanten).

BROWN-BANDED COCKROACH (Supella supellectilium) - IDAHO - Infestations appeared at Blackfoot, Bingham County. (Weston). WYOMING - Infestations in homes and apartments in Albany County. (Fullerton).

CLOVER MITE (Bryobia praetiosa) - WYOMING - Caused nuisance in many homes in Laramie area, Albany County. (Fullerton).

TARANTULAS - UTAH - Two specimens collected at Brigham City area, Box Elder County. (Knowlton).

MILLIPEDS - KANSAS - A pest in homes in northeastern area. (Eshbaugh, Knutson, Peters).

CORRECTION

CEIR 11(40):933 - EUROPEAN CHAFER (Amphimallon majalis) - MASSACHUSETTS - Delete note. See statement on page 954 of this issue.

LIGHT TRAP COLLECTIONS

	Pseud. unip.	Agrot. ips.	Perid. saucia	Prod. ornith.	Laphyg. frug.	Trich. ni	Heliothis zea	vires.
ARKANSAS								
Hope 9/28-10/4	4	9					83	
Morrilton 9/28-10/4	8	16					59	
Fayetteville 9/28-10/4							15	
COLORADO								
Two Buttes 9/29-10/6	222							
New Liberty 9/29-10/6		16						
Rocky Ford 9/29-10/6	15	35	10				14	
FLORIDA								
Gainesville 10/3					12		5	
INDIANA (Counties)								
La Porte 9/14-15	1	22	20		2		5	
Lawrence 9/12, 15, 18-22, 28, 29, 10/1	5	17	10		4		9	
Tippecanoe 9/22-10/4	2	2	5		2		12	
Vanderburgh 9/12-10/2	37	32	6		28		56	
KANSAS								
Garden City 9/27-28, 10/2-3	1	11					24	
Hays 9/28, 30, 10/3		2	2				13	
Manhattan 9/28-10/5		1					1	
LOUISIANA								
Baton Rouge 10/5-6	4	3		10	12	1	22	
MISSISSIPPI								
*Stoneville 9/29-10/5	236	130	4	329	76	741	1,107	24
NEBRASKA								
Lincoln 9/21-27	6	7	10		1		60	3
Kearney 9/22-10/2	120	45	4				18	1
North Platte 9/28-10/4	24	168	10		3		12	1
Scotts Bluff Exp. Sta. 9/24-30	12	18	5					
SOUTH CAROLINA								
Charleston 10/2-8	7	9		32	27		21	6
TEXAS								
Waco 9/23-10/6	129	11	193	68		1,280	482	10
*Brownsville 9/23-29						57		
WISCONSIN								
Middleton 9/30-10/8	2	3	10				11	
Madison 9/30-10/8	4	9	5				41	
Mazomanie 9/29-10/2	1	3	4				5	
Platteville 10/2-5	1	2	8				2	

* Two traps - Stoneville; 6 traps - Brownsville.

Additional Light Trap Collection: VELVETBEAN CATERPILLAR (Anticarsia gemmatilis) -
SOUTH CAROLINA - Charleston (10/2-8) - 152.

A GEOGRAPHICAL UNIT	B FROM CROP REPORTING SERVICE		D AV (bales)	E PEST OR PEST COMPLEX	F ACRES NEEDING CONTROL PRACTICE	G ACRES TREATED	H YIELD IN BALES/A		J % REDUCTION YIELD/A POTENTIAL	K COST OF CONTROL PRACTICE		M TOTAL \$/A	N TOTAL COST TREAT ALL A TREATED M\$	O ESTIMATED GAIN OR LOSS FROM TREATMENT \$/A	P YIELD LOSS PLUS CONTROL COST M\$
	M ACRES PLANTED	M ACRES HARVESTED					TREATED	UNTREATED		PEST- ICIDE \$/A	APP- LICATION \$/A				
(Counties)															
Yuma, Pinal, Maricopa, Pima	380	375	2.0	All pests	1,500	900	2.7	1.7	37	15.00	5.00	20.00	18,000	60.00	37,200
Cochise, Graham, Greenlee	37	35	1.8	All pests	140	84	2.3	1.3	43.5	15.00	5.00	20.00	1,680	60.00	3,472

INDEX TO ARIZONA TABLE

A. GEOGRAPHICAL UNIT

B. M* ACRES PLANTED

C. M ACRES HARVESTED

D. AV. YIELD BALES/ACRE

E. PEST OR PEST COMPLEX

F. M ACRES NEEDING CONTROL PRACTICE (Estimated 80% of acres harvested (C) needing 5 applications)

G. M ACRES TREATED (80% of acres harvested (C) with 3 applications)

H. YIELD/ACRE TREATED

I. YIELD/ACRE UNTREATED

* M = 1,000

J. ESTIMATED % REDUCTION YIELD/ACRE FROM POTENTIAL
(Estimated from difference (H and I))

K. COST OF CONTROL PRACTICE

K. PESTICIDE \$/A

L. APPLICATION \$/A

M. TOTAL COST \$/A (K + L)

N. COST TO TREAT ALL ACRES TREATED M\$ (M x G)

O. ESTIMATED GAIN (OR LOSS) FROM TREATMENT \$/ACRE.
Calculated as follows: 60% of Acres Harvested
needing treatment (80% of C) x Av. price per
unit (Bale) x Yield Difference (H - J) - Total
Cost To Treat All Acres Treated (N) ÷ 60% of
Acres Harvested Needing Treatment (80% of C)P. YIELD LOSS M\$ PLUS CONTROL COST M\$. Calculated as
follows: Av. Price per unit (\$160.00) x 40% of Acres
Harvested Needing Treatment (80% of C) x Yield Differ-
ence (H - I) + Cost To Treat All Acres Treated M\$ (N) =
Est. loss + cost attributable to pest in area covered

UNITED STATES DEPARTMENT OF AGRICULTURE
WASHINGTON 25, D. C.

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POSTAGE AND FEES PAID

